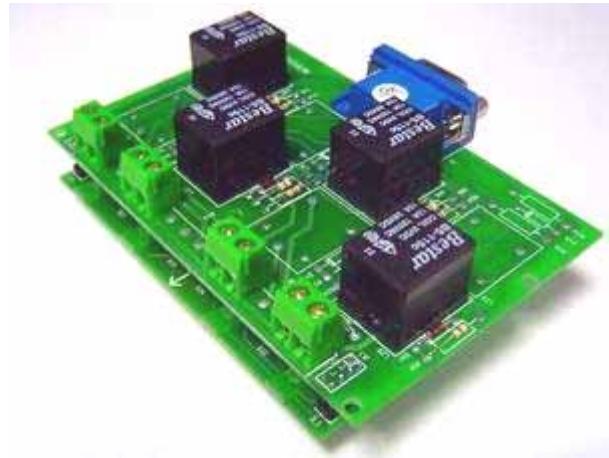
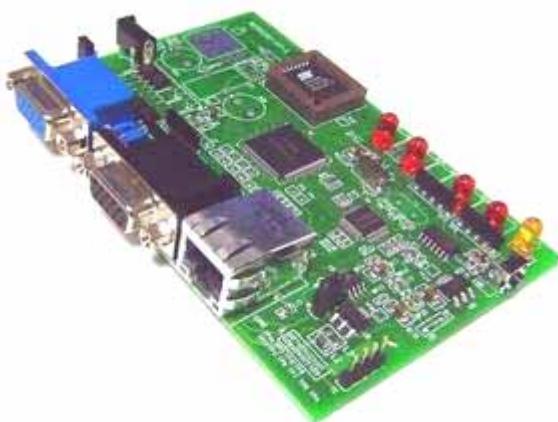


IP POWER 9202
Internet Power Controller
USER MANUAL

User Manual



IP POWER 9202
Version: V1.06
2006. 02

Warning: any changes to this equipment without permission may cause damages to your equipment! This equipment has been proved to can be prevented from the influence of harmful electronic jamming in normal business use condition.

IMPORTANT NOTICE

1. IP Power 9202 is deigned on the fundamental principle of learning in kit.
2. IP Power 9202 is deigned to be used in-door, we have no responsibility for the possible damage in out-door use especially in the rain.
3. Please use the power adaptor provided by the dealer, we have no responsibility for the possible damage in using other adaptors.
4. Do not use IP Power 9202 in strong shaking condition
5. Please contact the dealer If IP Power 9202 works improperly.

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Power Controller :

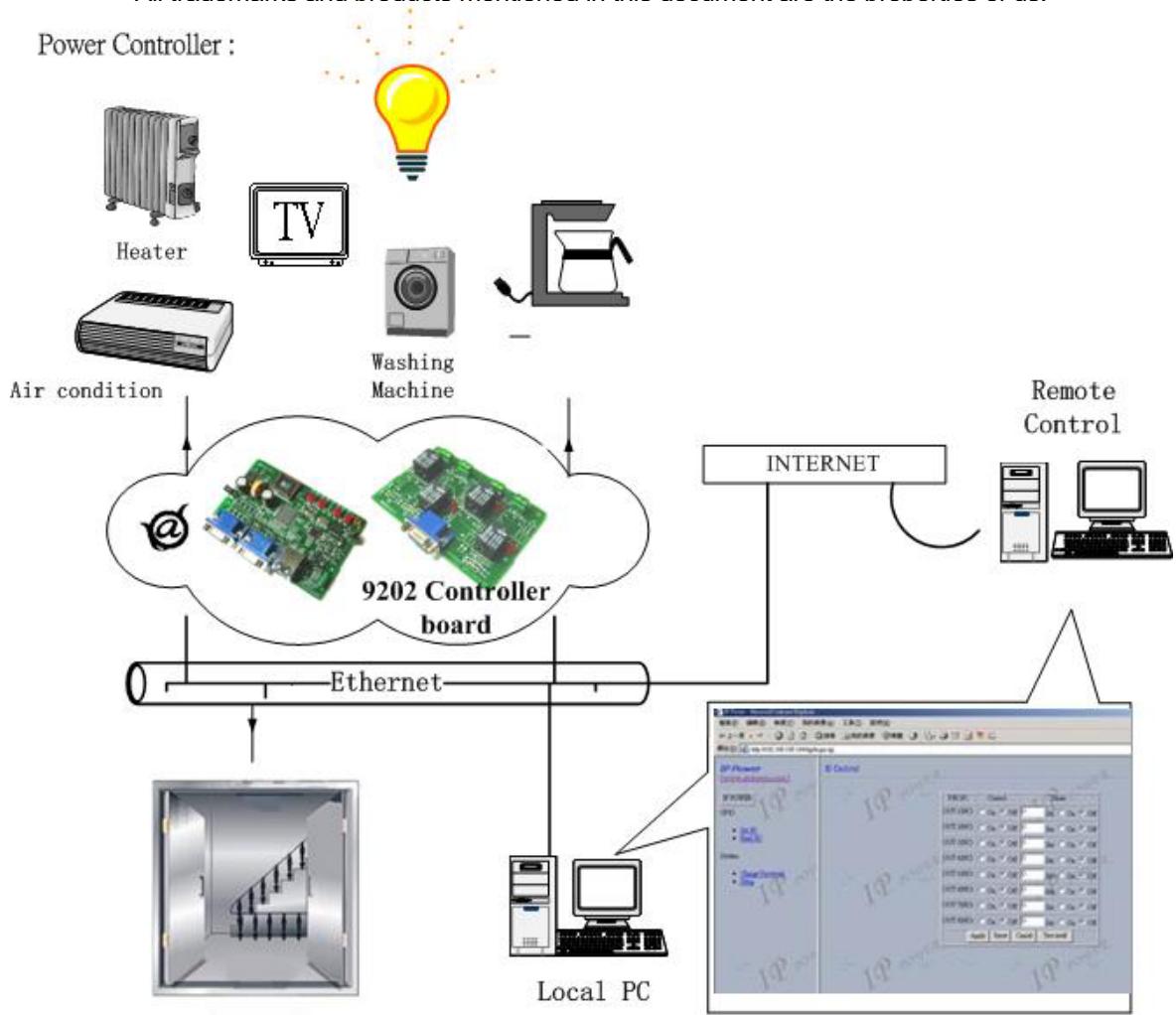


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1. Introduction

Try to imaging that your home is cool in summer or worm in winter when you get home if only you set it through the Internet few hours before you go home. When you are overseas, you can turn on the lights or sound box through the Internet to scare away the thieves.

Browsing on Internet has already becomes a daily habit of the modern people. Now you can control the household appliances, entrance guard and lights of you home through the network anyplace in the world. Do you want to remote control the switch through the Internet? This set of power control module through the Internet is an economic solution to satisfy your needs, no need specific Software for computer system, even no need to open the case of computer. If only you have a computer connected to network (Internet or Ethernet), you can operate the power switch. It has 4 sets of delay switcher, two sets are normal open, and two sets are normal close. It can be used in controlling electrical equipments, such as a small automatic factory in your home. You can do it through the network and no longer need to rush from one place to the other, saving a lot of time and money for you.

Feature

1. Built in web server, can be used through the Ethernet network or Internet network without computer.
2. Built in network browser interface, no need any other software you can receive the signal and operate the switch online anywhere in the world
3. It can control four power switches or even more using the plug board.
4. **Two sets of normal open switches and two sets of normal close switches for different applications.**
5. Appointed control—appoint a time to turn on or off the power automatically
6. Supported HTTP, fixed IP in Internet network, DHCP, and virtual IP in Ethernet.
7. Security passwords identify & manual reset to default settings.
8. Easily installed and can be updated online
9. Separated LED indicates the state of each switch.
10. Safely designed for high voltage resistance and protection for leakage of electrical currency, using nonflammable material.
11. Polarity protective—no damage to your equipment even connects the circuit reversely.
12. Universal Power voltage supported within 90-240 Volt
13. Embedded “WATCH DOG”
14. It can be used separated or associated with other products of OUR such as IP Kamera, IP Video and IP Sensor 9201 in all-directional network security monitoring, control and detection.
15. **Support GPRS – setting by for online Cell phone (item limit) .**
16. **Support SMTP : Send IP address by E-mail as log in**

Specification: 1. DC5V (AC90-240 input) 2. D-SUB Out port. 3. RJ45

Application field: can be associated with any kind of electrical equipments, no matter household appliances or security equipment. It can manage the power supply through the web page; make it be safer for the security equipment and more convenience for digital control at the far end.

Electrical equipment control: entrance guard, light and air conditioner

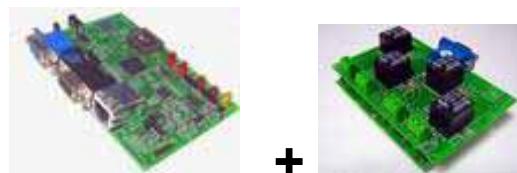
- 1-1 Turn on/off the lights—scare away the thieves
- 1-2 Turn on/off the air conditioner—have a cool or worm feeling when you back to home.
- 1-3 Open /close the door—no more trouble when you lost the key again.

Industrial application field: bank, financial security system, jewels, casino, cash register in supermarket, park, traffic control, military equipment and airport.

2. Before you start

9202 package contents

- ∅ A set of IP POWER 9202



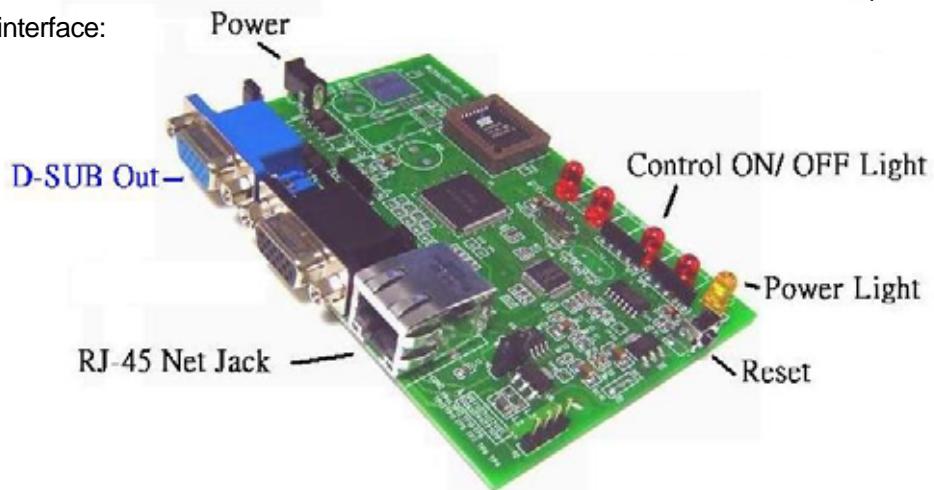
- ∅ Network wire with RJ 45 port
- ∅ An adaptor with 1A, 110~220 volt AC input
- ∅ D-Sub 15 Pin cable
- ∅ Install disc (include rapid installation manual).

Minimum System Requirements

- Minimum Intel Pentium II 300MHz/compatible AMD processor
- WINDOWS operating system (IE5.0+SP1)
- Minimum 64MB RAM
- VGA Card: with capability of displaying full-Colors and DirectDraw support
- Network card with RJ45 port
- Ethernet Hub / Router
- Internet network (Ethernet, xDSL or other ways, depends on whether you need far end control ability or not)

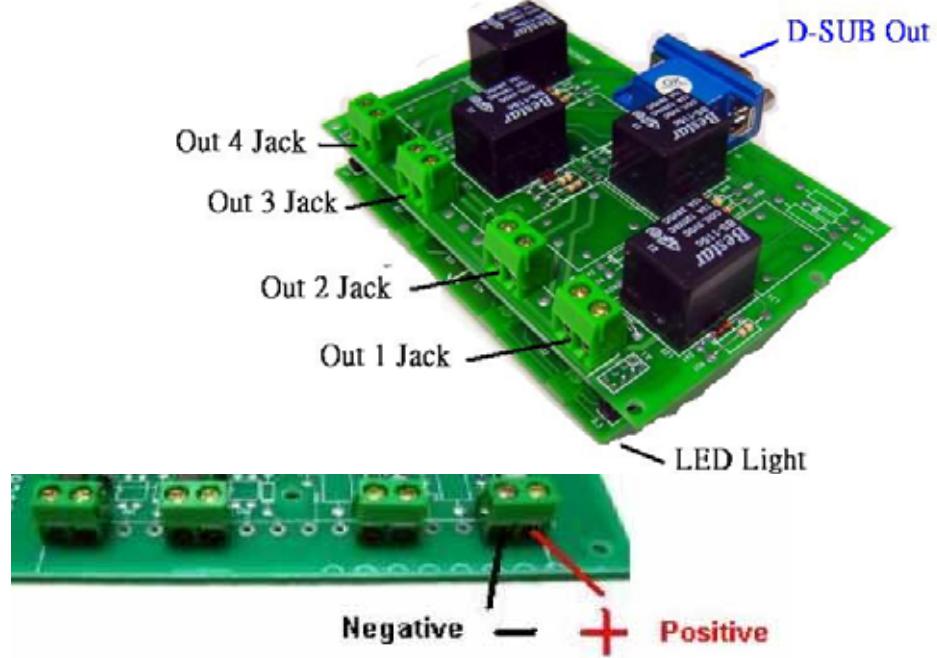
3. Interface Description

3-1. IP Power 9202 has two modules, 9200 is the network module, and the followed picture shows its interface:



Note: The **black D-SUB** is no function in IP Power 9202.

3-2 9202 is the output module and figure below shows its interface:



* For different request of normal state of electric equipment, 9202 offers: two sets of normal close switcher-- **Out 1 & Out 2** and two sets of normal open switches- **Out 3 & Out 4**

* IP Power 9202 offers two sets of normal close switches Out 1 & Out 3 and two sets of normal open switches Out2 & Out 4.

Maximum Rated Voltage: 240V/AC, 60V/DC

Maximum Rated Currency: 12A AC/DC

Maximum rated voltage for Single relay : 24V/ 10A , 120V/ 10A , 250/ 7A

Maximum Switch time: Max 10ms

Environment Temperature: -30°C~ + 55°C

4. Hardware & Software installation

Before you star to use IP Power 9202, please follow the steps below:

- Check the package to make sure the contents is complete.
- prepare one Ethernet HUB, or Router
- Check the voltage of the power supply to make sure it is AC 110-240 volt.

Hardware Installation: Connect RJ45 first then POWER jack

- 1 Connect the 9200 to HUB through network wire.
- 2 Connect the 9200 to 9202 through VEG cable.
- 3 Connect the HUB to the Internet (May through ADSL/XDSL modem).
- 4 Connect the power adapter to the 9200.

Power on your computer and the power adapter of IP Power 9202..

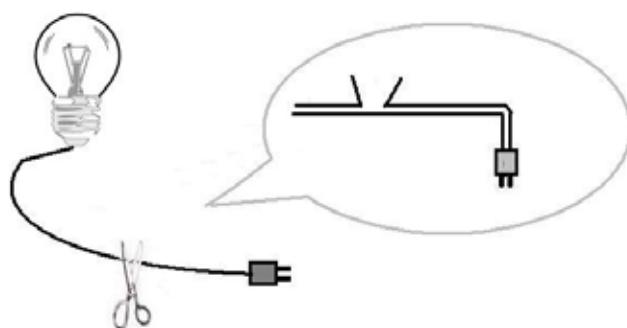
Hardware connection (recommend):

NOTICE: The following operations in this section should be operated by professional, the common user DO NOT try it!

Way 1 : For example—Light

1. Use the electrical wire of its own

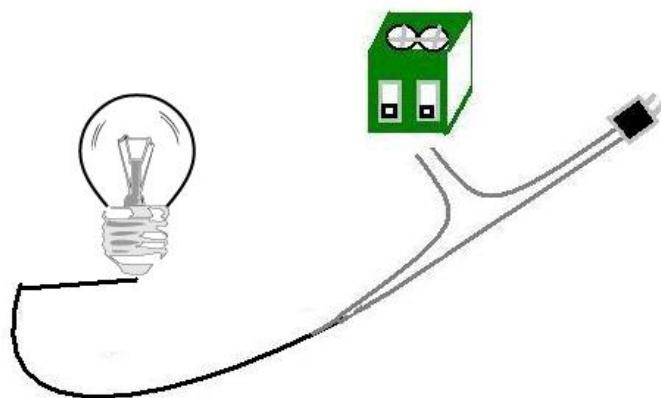
Step 1 : cut off either sect of the electrical wire



NOTICE: this method must cut off the electrical wire of the household appliance. Please make the decision after reading connection 2 & 3.

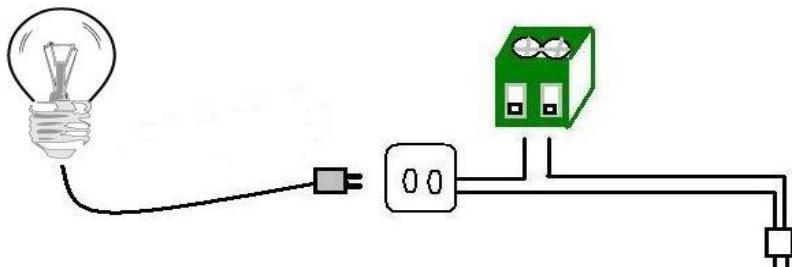
Use a test pen or screw driver with voltage tester to identify the **live wire** among the two wires of electrical wire. Cut off the live wire and connect to the port of IP Power 9202. **Use the test pen or screw driver with voltage tester again to make sure the connection is correct.**

NOTICE: BE CAREFUL IN THIS OPERATION AND DO NOT TOUCH THE WIRE UNDER VOLTAGE WITH ANY PART OF YOUR BODY, ESPECIALLY WITH YOUR HANDS



Way 2: . Use additional electrical wire: you can buy some electrical wire and outlet in the electrical shop to cooperate with IP Power 9202, avoid cutting off the electrical wire of the equipment and can be used flexible in all kind of electrical equipment.

NOTICE: Use a test pen or screw driver with voltage tester to identify the live wire among the two wires of electrical wire and make sure of connecting the live wire to the port of IP Power 9202.



Way 3. Use the extend wire: you can control more power switches at the same time.



NOTICE: Do not connect too much energy intensive electrical equipment such as air conditioner, electrical heater, microwave over or over in the same electrical outlet.

Too much electrical currency may cause fire. This product not guarantees the possible damage because of too much electrical currency.

Software installation

Having connected the power supply and network cable with RJ45 port to the 9200, please install the software as the follow steps:

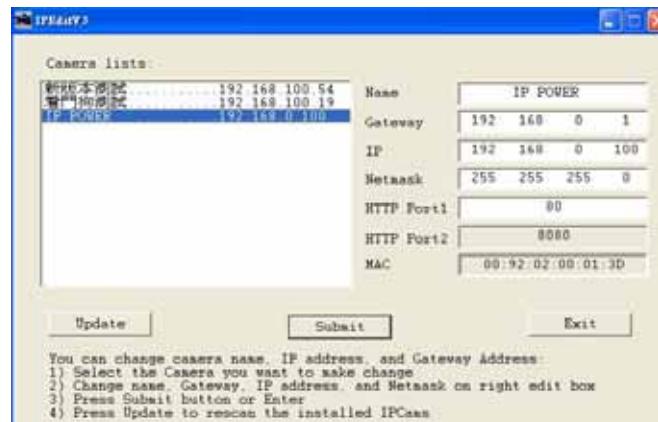
1. Start your computer, put the install disc in the CD-ROM, and then find the file named ipEditv3.exe in the install disc.
2. Copy the file to desktop or any directory you want save to.
3. Start the initial setting process following the construction in next section.

NOTICE: IP Power 9202 needs no other drivers or application software basically. All its interfaces are building the hardware. Ipedit3.exe will help you find the virtual IP.

5. Initial Settings

Initial setting through the Ethernet

1. Double click the EditV3.exe



2. All the IP 9200 series, IP Kamera 9000 series/IP Video 9100 series in the same subnet of the Ethernet will be found and be display in the window by the software. The default name of IP Sensor 9202 is IP Power.

IPEditV3 can adjust Name / Gateway / IP / Netmask / HTTP Port1)

| | | | | |
|------------|-------------------|-----|-----|-----|
| Name | IP POWER | | | |
| Gateway | 192 | 168 | 0 | 1 |
| IP | 192 | 168 | 0 | 100 |
| Netmask | 255 | 255 | 255 | 0 |
| HTTP Port1 | 80 | | | |
| HTTP Port2 | 8080 | | | |
| MAC | 00:92:02:00:01:3D | | | |

2-1 : Change Name : MAXIMUM 10 DIGIT

2-2 : After Change Gateway , IP, Netmask (xxx.xxx.xxx.0 ~ xxx.xxx.xxx.254) or Port1(1~32767) , the device will turn off DHCP .

2-3 : Click the IP in Lists will open the webpage , please type the IP Address if using Netscape

3. Click the equipment's name that you want to edit in the left of the window; it will turn fuscous, the equipment's name and IP will display in the windows, you can rename (use numbers and letters). After that, click the update button and the new setting will be work in 20 seconds.

4. Double click the name of the equipment you want to control, the IE browser window will open and connected to this equipment in that Ethernet automatically. You also can type the IP address of the 9202E in the IE browser to open the web page of 9000. We suggest you to update the IE to version 6.0 with SP1 or higher if your IE notices you the security level is too low to open that web page.

NOTICE:

1. Make sure the RJ45 network wire have been connected correctly and the 9200 are power on.
2. When execute “ipedit3.exe” , as ISP support DHCP, you can find the dynamic IP address . click the IP address , you can get in the webpage. If not support DHCP, after connect few second , the setting will change to FIX DYNAMIC IP address .
3. If can not get in the 92XX web page , please set the segment of IP 9060(A) to be same as your PC.

* You can get your PC network information – IP Address, Subnet Mask and Default Gateway by step: start → execute → key “cmd” in dialog → key “ipconfig” in MS-DOS mode



```

C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Chiu>ipconfig

Windows IP Configuration

Ethernet adapter 地域連線:

Connection-specific DNS Suffix  .  :
IP Address . . . . .  : 192.168.100.31
Subnet Mask . . . . .  : 255.255.255.0
Default Gateway . . . . .  : 192.168.100.254

C:\Documents and Settings\Chiu>

```

The last digit of IP address can be any number between 1~254, but can not be same as your PC. If using in any PC, just use HUB and type the 192.168.0.100 in Browser or use “ipedit.exe” then you can get in the webpage.

* Same **SEGMENT** : The first 3 number of IP address is same - XXX.XXX.XXX.abc. The part of XXX is same. For Example : IP address is **192.168.1.100** , then another IP address **192.168.1.123** is the IP in same segment .

4. The default username and password of IP Power 9202 are:

Username: admin
Password: 12345678

If forget the new password , you can key in superuser in username , and hardware reset the device to set the default setting Password : 12345678 。(for security concern).

5. Please note the program “ipEditV3.exe” is for easily find dynamic IP address and change the device Name only.

6. Control and settings through the Internet

Type the new IP address of IP Power 9202 in the address field and you can enter the login web page. Input the default password 12345678 (you can change the password as you wish), click the OK and then you can enter the Web Control page.

Welcom to IP Family WebControl

Please enter password. (maximum = 8)

User Name

Password

1)Maximum 8 digit for Password .

The screenshot shows the 'IP POWER' web interface. On the left, a sidebar lists 'GPIO' and 'System' options. Under 'System', there are links for 'Set I/O', 'Change Password', 'Setup', 'E-Mail', and 'Firmware Update'. The main content area is titled 'PIN I/O' and 'Control'. It displays four output sections (OUT 1-4) for 'Normal Close' (NC) and 'Normal Open' (NO) switches. Each section includes an 'On/Off' radio button, a 'Sec' input field (set to 0), and 'On/Off' radio buttons for the LED. The 'Control' section also includes a 'Timer' section with a 'Sec' input field (set to 0) and 'On/Off' radio buttons. At the bottom of the control panel are 'Apply', 'Reset', 'Cancel', and 'Test-itself' buttons.

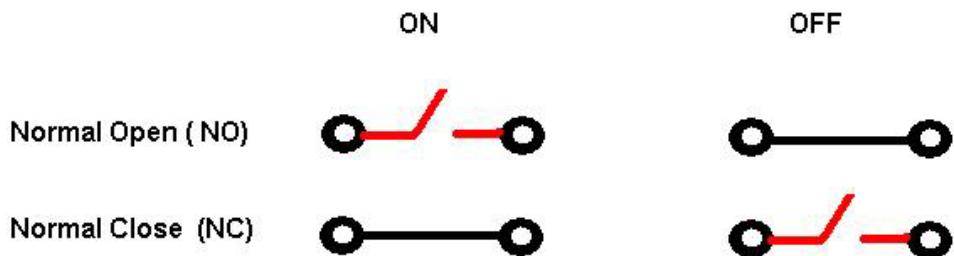
Control the IP Power 9202

IP Power 9202 now can control 4 outputs at the same time.

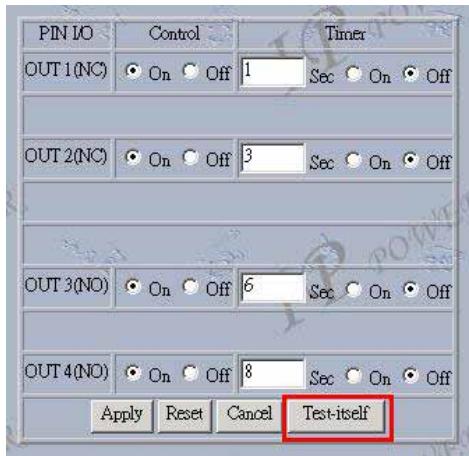
Out1 & Out2 are **NORMAL CLOSE** normal close switches. When it is **on**, the corresponding LED lights up, the circuit between the two connects is turnoff. When it is **off**, the corresponding LED light off, the circuit between the two connects is turn on.

Out3 & Out4 are **NORMAL OPEN** switches. When it is **on**, the corresponding LED lights up, the circuit between the two connects is turn on. When it is **off**, the corresponding LED light off, the circuit between the two connects is turn off.

Webpage Control



1. Auto test function



Click the **test-itself** button and you will see the figure above. The states of OUT1, OUT2, OUT3 and OUT4 will separately keep in ON for 1 second, 3 seconds, 6 seconds and 8 seconds, then all back to OFF. After one period, four outputs will keep in OFF state for the same time. This process will repeat until you click the **reset** or **cancel** button.

2. Set the output's state to ON/OFF



Click the output you want to change, set it to ON or OFF state and click apply button to finish the setting.

3. Set one output be in ON/OFF state at the appointed time

| PIN IO | Control | Timer |
|----------|---|--|
| OUT1(NC) | <input type="radio"/> On <input checked="" type="radio"/> Off | 0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off |
| OUT2(NC) | <input checked="" type="radio"/> On <input type="radio"/> Off | 30 Sec <input type="radio"/> On <input checked="" type="radio"/> Off |
| OUT3(NO) | <input type="radio"/> On <input checked="" type="radio"/> Off | 0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off |
| OUT4(NO) | <input type="radio"/> On <input checked="" type="radio"/> Off | 0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off |

Apply Reset Cancel Test-itself

You can set the state when one output starts, either ON or OFF. You can also set the delay time and the action when the delay time is up. Then click **apply** button to confirm it.

The example shows in the figure above means the OUT3 will be in ON state when it starts and will changes the state to OFF after 30 seconds.

4. Reset the ON/OFF settings

Click the **reset** button you can cancel the previously output settings.

Setting the password for IP Power 9202

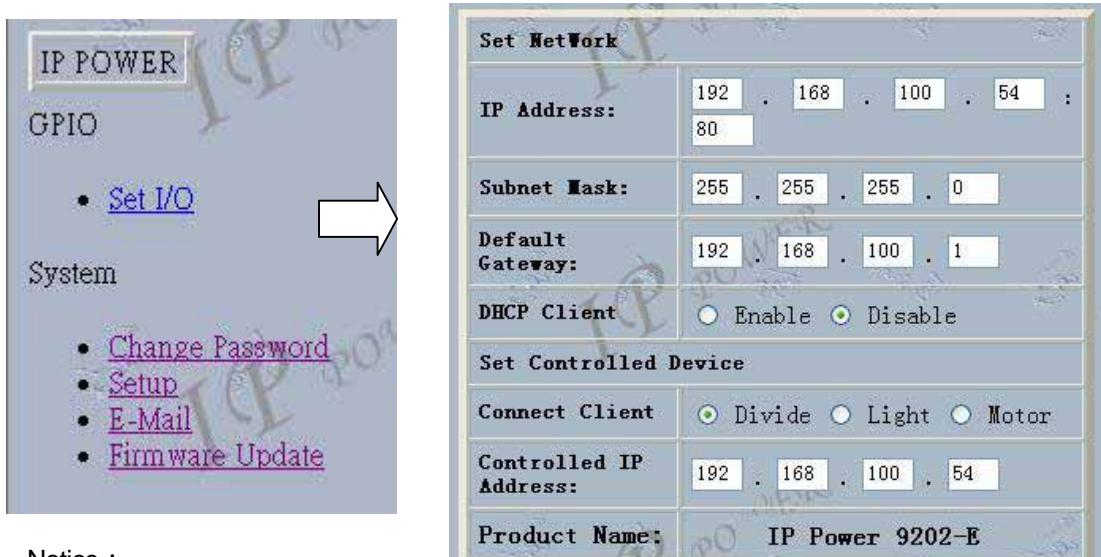
Click the **change password** option at the left window and you can enter the change password page. Follow the instructions, fill in the old password and new password, then click the **apply** button to confirm.



Setting the IP address for IP Power 9202

1. Setting a fixed IP address for IP Power 9202.

Click the **setup** option in the left side of the window and you can enter the setting web page. Then follow the instructions fill in the new IP address, mask, and gateway for IP Sensor 9201, forbidden the DHCP service, click the **submit** button to confirm.

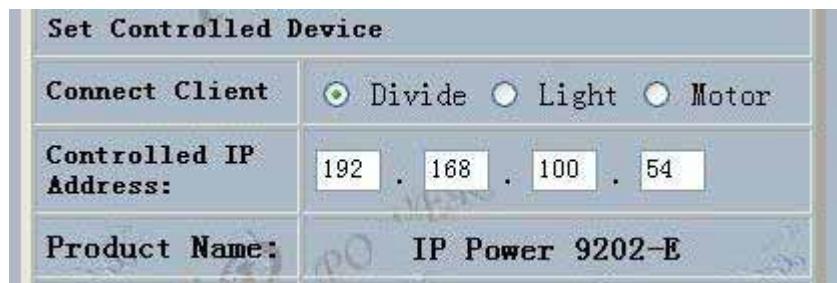


Notice :

- 1)The format of IP Address : xxx.xxx.xxx.xxx:yyyyy , the port range of yyyyy is 1~32767.
- 2) The range of Subnet Mask is xxx.xxx.xxx.0 ~ xxx.xxx.xxx.254.
- 3) If disable DHCP , you can set TCP Port and Default Gateway ; the default port of DHCP Enable is xxx.xxx.xxx.80 , and the Default Gateway is supply by server .
- 4) If use the port other than 80 , you need to key full address <http://xxx.xxx.xxx.xxx:yyyyy> in IE/ Netscape , or use the attached program IPEditV3.exe to login. .

5) When setup the setting please confirm the IP Address & Controlled IP Address is same address.

Special Hardware Inter-Control - 92XX series : Use 9201/9212 (DI part) to control (IP Power 9212 & 9202 / IP Sensor 9201 / IP Motor 9203)



1. 92XX series Inter-Control function : Use DI (Digital Input) sensor device as main controller A (Like 9212 or 9201) to controlled device B (like 9212 / 9202 / 9203) .

Correspondence connectors :

| Main Controller | | | | | |
|-------------------|----------------|-----------------|-----------------|----------------|-------------|
| 9212 | IN 1 | IN 3 | IN 6 | IN 8 | IN 3 + IN 6 |
| Controlled device | | | | | |
| 9202 | IN 1 | IN 2 | IN 3 | IN 4 | X |
| 9212 | IN 1 | IN 3 | IN 6 | IN 8 | X |
| 9203 | Keep turn left | Turn left-1step | Turn left-1step | Keep turn left | STOP |
| | | | | | |

| Main Controller | | | | | |
|-------------------|----------------|-----------------|-----------------|----------------|-------------|
| 9201 | IN 1 | IN 2 | IN 3 | IN 4 | IN 1 + IN 3 |
| Controlled device | | | | | |
| 9202 | IN 1 | IN 2 | IN 3 | IN 4 | X |
| 9212 | IN 1 | IN 3 | IN 6 | IN 8 | X |
| 9203 | Keep turn left | Turn left-1step | Turn left-1step | Keep turn left | STOP |
| | | | | | |

2. Connect Client setup :

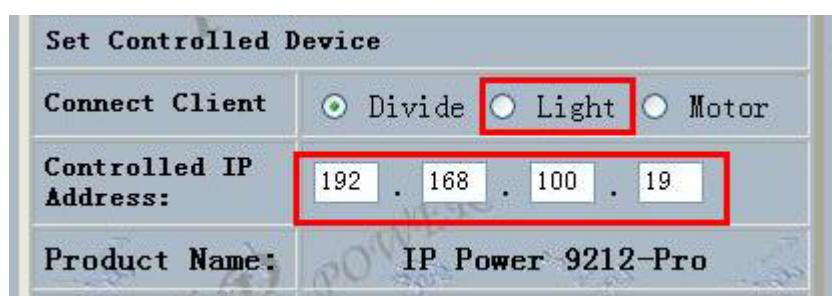
- A. Divide : this device word separately and do not use Inter-Control
- B. Light : This device can control 9202 / 9212 (IP Power) - by change the default setting of : Normal close or normal open
- C. Motor : This device can control 9203(IP Motor) –control the direction of turning..

3. Controlled IP Address: Setting the Ip Address of controlled device .

In Inter - control mode when transfer ,. the Out Light(P6.1/P6.2) will always on , if the main controller freeze the Out Light P6.1 is always on , if the controlled device freeze , the light of P6.2 is always on..

2-1 For example : Control IP 9202 by DI board of IP Power 9212

- Step 1 : Go to SETUP , change Connect Client and set as Light ,
- Step 2 : key in the IP address of controlled device (IP Motor)



Step 3 : Click Submit to confirm setting , when the count windows is off , the new login windows jump out as following pictures.

Welcom to IP Family WebControl

Please enter password. (maximum = 8)

| | |
|---|--------------------------|
| User Name | admin |
| Password | <input type="password"/> |
| <input type="button" value="OK"/> <input type="button" value="Cancel"/> | |

SMTP for E-Mail : receive IP address

As setting up the receiver e-mail address, IP Power will send its IP Address to receiver .

Email Setting

| | |
|---|-------------------------------------|
| Receiver: | 12345678@abcd.com 87654321@dcba.com |
| Sender: | abcd@168.com |
| Mail Server: | 168.com |
| MailPassword: | ***** |
| Warning MSG: | Alert |
| 1 2 <input type="button" value="Apply"/> <input type="button" value="Send"/> <input type="button" value="Cancel"/> | |

Setting Sample :

Receiver: 12345678@abcd.com 87654321@dcba.com

Sender: abcd@168.com

Mail Server: 168.com

Mail Password:

Warning MSG: Alert

After type in all the information please click "apply" first to save the change and then "send " to send mail.

There is status bar next to at the clock : There are four possible situation for sending e-mail.



- a. **Mail send OK** : Receiver should receive mail in short time.
- b. **User or password error** : After change the username and password please click "apply" "To save setting and click send to
- c. **Mail ahead sending , please send later** : Mail server was block as lots mail
- d. **Connect time out , mail to be dropped** : please login again

1)Receiver : can be 2 receiver e-mail address , please use space between two e-mail address.
After setup, ever time you login , IP Power 9212 will send receiver the IP address.

2)Mail Server : must be a mail server which can supply e-mail transfer and support SMTP function .

3) Warning MSG: the title of the e-mail.

4)The maximum digits of each item:

- a)Receiver : 0x200(512 bytes)
- b)Sender : 0x30 (48 bytes)
- c) Server: 0x30 (48 bytes)
- d) Password: 0x30 (48 bytes)
- e) Warning MSG(text) : 0x50 (80 bytes) –can be empty

5) Mail contents include : "From:", "To:", "Subject", "IP Family Address"

GPRS for Cell Phone : Support WAP.

IP POWER 9212 support GPRS function , you can use cell phone (with online function)
To setup the online device (real IP address) as operate in browser .:

- 1) Address setting : add "/wap" after your online IP address .
For example : <http://65.59.37.123/wap>
or appointed port [http://61.59.32.147\[:8080\]/wap](http://61.59.32.147[:8080]/wap)
the interface is same as in IE(Internet Explore) .
- 2) The IP Address must be real ip address and can be work on Internet..
- 3) The name of IP device must be English , or will be encode in wap.
- 4) Before using WAP control, please check if your cell phone support GPRS and if your number had apply online service.

We support : Motorola V878 , Sony Ericsson T630 and Siemens.

Software online update :

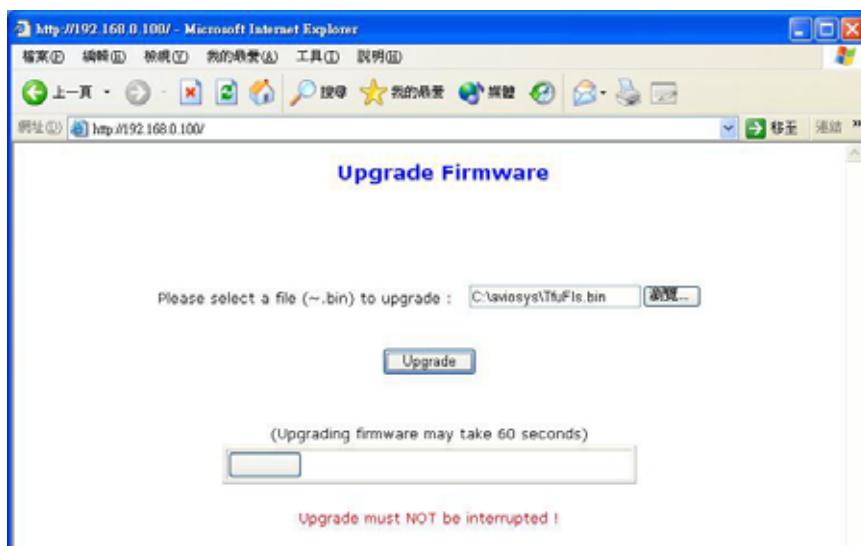
For wild application in different filed , IP POWER 9212 support online update .It safe time and money as developing your product .

Step 1 . Login the webpage

Step 2 . Click Firmware Update and click update



Step 3 Click browser to use latest Firmware then click Upgrade to update Firmware



Step 4 after finish update please wait some second and then re-log In



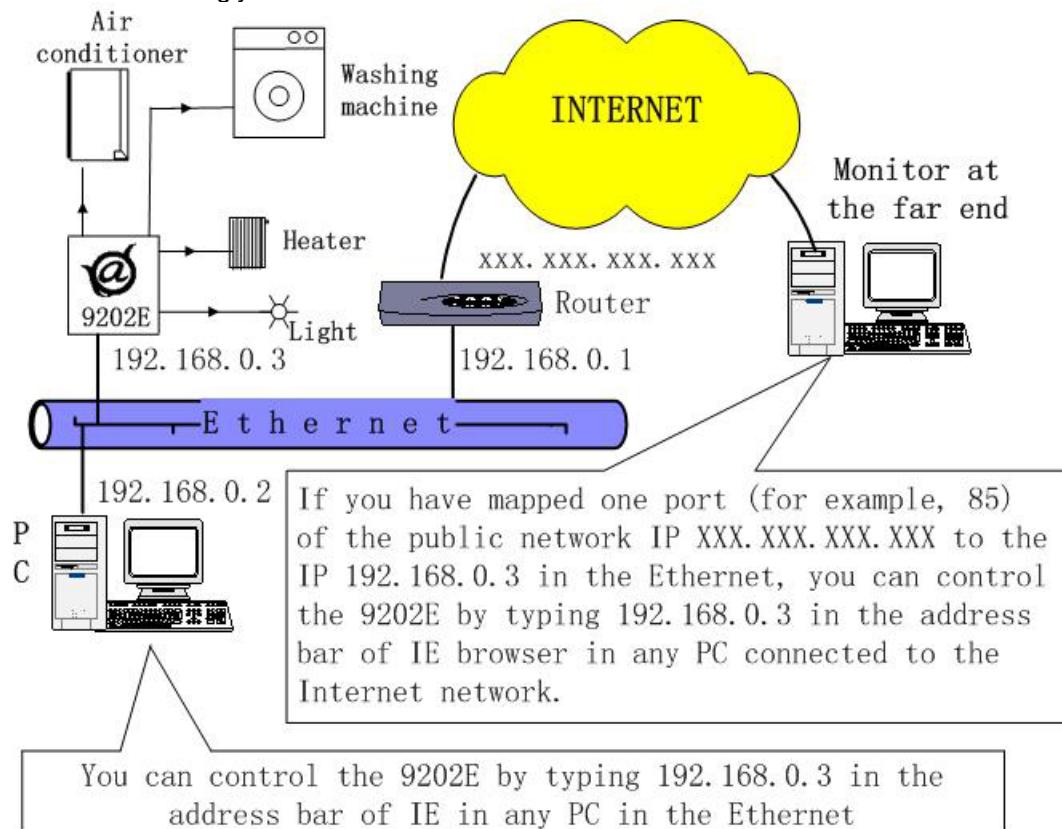
ps : If use DHCP please enable DHCP.

Note: :

- 1)If the Port is 80 then you can directly update.
- 2)If update fail , you can manual reset the device and update again .

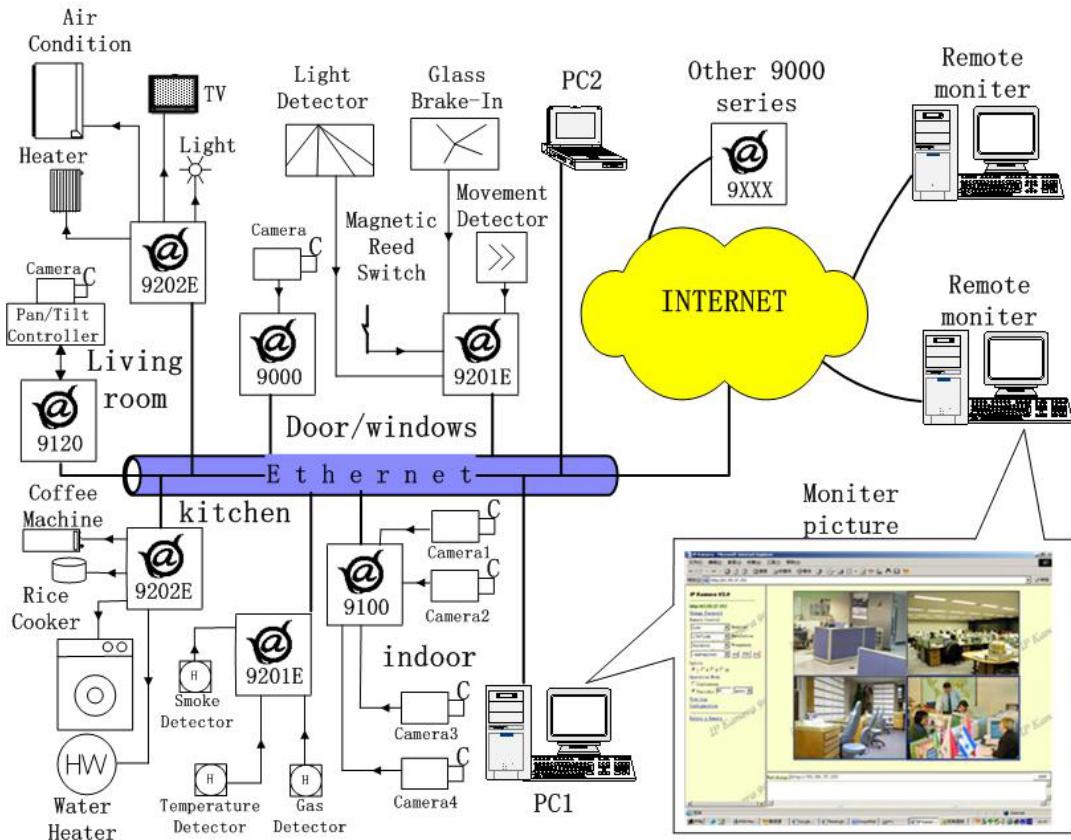
7. Setting the IP Power 9202 E through the Internet

After you have setting the Ethernet and router, you can access the IP Sensor 9201 from the Internet. It will bring you all kinds of convenience.



8. APPLICATION ASSOCIATED TO OTHER IP RPODUCTS

You can associate the IP Power 9202 with other IP network product of OUR in your home Ethernet, such as IP Kamera 9000 network camera, IP Video 9100 network video server and IP Sensor 9201, to monitor the equipments or sensors installed in the doors or windows. This is an economic solution to achieve the network monitor, detection and control.



9. FAQ

Q1: I forgot the password and can not enter the administration page now, what can I do?

A1: Turn on the power normally, and then click the ipedit.exe program to enter the web page.

Type in the username "**superuser**" then press OK to confirm and then press the reset button in 9200; it will be back to the default settings and enter the administration page.

Q2: I cannot open the IE web page, why?

A2: Please update your IE or use the up-to-date version of Netscape browser.

Q3: Why the on/off operation can work immediately?

A3: if you operate the IP Sensor 9201 in Ethernet, the operation will work immediately. If you operate it through the Internet, the response speed depends on the situation of the network. Normally the delay is not obvious because the date need to be transported during operating the IP Sensor 9201 is very little.

10. Control and setup by HTTP command

User can control IP Power 9212 through HTTP command , command format as follow:
[http://admin:password@xxx.xxx.xxx.xxx/SetIO?para1=*¶2=*¶3=*](http://admin:password@xxx.xxx.xxx.xxx/SetIO?para1=*¶2=*¶3=*&)

Command format part explanation :
username : default setting “admin”
password : default setting “12345678”
XXX.XXX.XXX.XXX : IP address of IP Power 9212
SetIO : output command
para1 - para3 parameter setting

Example 1 : control I/O Output with username and password :

<http://admin:12345678@192.168.0.105/SetIO?p61=1+p62=1+p63=1+p64=1+p65=0+p66=0+p67=0+p68=0>

We use above command to control IP Power 9212 at 192.168.0.105 , username is admin , password is 12345678.
Turn on PORT1 (p61) , PORT2 (p62) , PORT3 (p63) and PORT4 (p64) .
Turn off PORT5 (p65) , PORT6 (p66) , PORT7 (p67) and PORT8 (p68) .

After send out above command , IP Power 9212 will get following message :

<html> P61=1,P62=1,P63=1,P64=1,P65=0,P66=0,P67=0,P68=0 </html>

Notice : pxx must be lower case , the command of SetIO must be same of the style

Example 2 : no need to key in the username and password in command

<http://192.168.0.105/SetIO?p61=1+p62=1+p63=1+p64=1+p65=0+p66=0+p67=0+p68=0>

after type in above command , the following command jump:



after key in the username and password , 9212 will return following message :

<html> P61=1,P62=1,P63=1,P64=1,P65=0,P66=0,P67=0,P68=0 </html>

Example 3 : Read I/O Output of 9212 :

<http://192.168.100.61/GetP6?>

no need to key in the username and password in command ,
after key in the username and password , 9212will return following message :

<html> P61=1,P62=1,P63=1,P64=1,P65=0,P66=0,P67=0,P68=0 </html>

Output status as follow:

On: PORT1 (p61) , PORT2 (p62) , PORT3 (p63) , PORT4 (p64) .
Off : PORT5 p65) , PORT6 (p66) , PORT7 (p67) , PORT8 (p68) .

Sample 4 : Read 9212的I/O Input :

<http://192.168.100.61/GetP5?>

no need to key in the username and password in command ,
after key in the username and password , 9212will return following message :

<html> P51=1,P52=1,P53=1,P54=1,P55=0,P56=0,P57=0,P58=0 </html>

Output status as follow:

* With Input : PORT1 (p51) , PORT2 (p52) , PORT3 (p53) , PORT4 (p54) .
* No Input : PORT5 (p55) , PORT6 (p56) , PORT7 (p57) , PORT8 (p58) .